

**In the Claims:**

Claims 1-4 (cancelled).

5 (New). A power supply circuit for generating a supply voltage based on an input constant voltage and supplying the supply voltage to a load, said power supply circuit comprising:

    a delay circuit configured to delay the input constant voltage;

    an output circuit configured to generate the supply voltage from the input constant voltage delayed by the delay circuit and supply the supply voltage to said load; and

    a bootstrap circuit configured to heighten an input impedance of the output circuit.

6 (New). The power supply circuit claimed in claim 5, wherein a current supplied to an input of the output circuit from the bootstrap circuit is set to a current value to drive the output circuit.

7 (New). The power supply circuit claimed in claim 5, wherein the bootstrap circuit includes a circuit component which has the same electrical characteristic as the output circuit and is connected to the output in series, and supplies a current to an input of the output circuit, said current having the same magnitude as a drive current for the circuit component.

8 (New). The power supply circuit claimed in claim 5, wherein the delay circuit comprises:

    a resistance serially provided between an input terminal to which the input constant voltage is applied and the output circuit; and

    a capacitance element provided between a connection point of said resistance and the output circuit and a base potential terminal serving as a base potential and delaying the input constant voltage.

9 (New). The power supply circuit claimed in claim 5, wherein, when the supply voltage is supplied to a plurality of loads, the delay circuit and the output circuit and the bootstrap circuit are provided for each of the loads.